

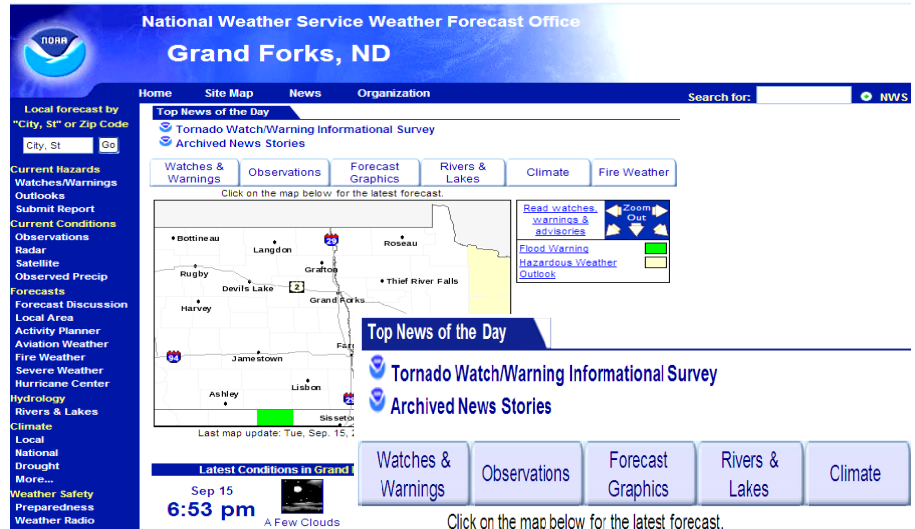


Grand Forks National Weather Service Rivers & Lakes Webpage Tutorial

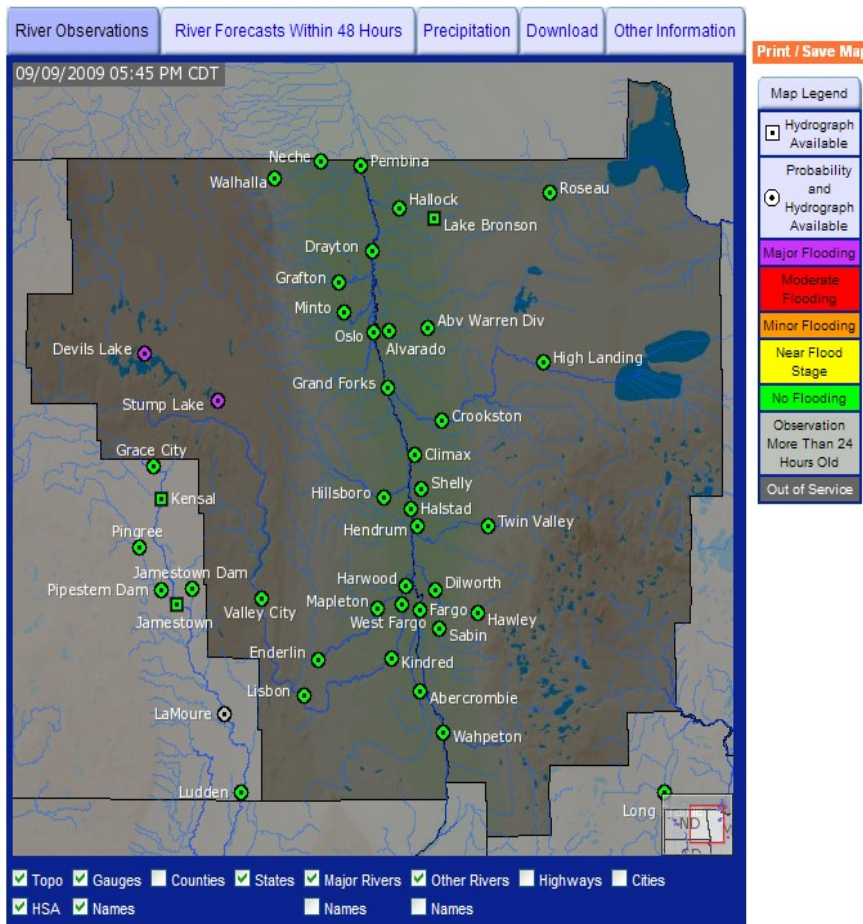


Open Internet Application & Enter into address bar: www.nws.noaa.gov/fgf

This will lead to the Grand Forks
National Weather Service homepage:



Click on the light blue Rivers & Lakes tab located above the map to lead you to a new page, located below.



This page shows the different river and lake gages across the county warning area in the shaded area as well as their current stage which is indicated by the color of the point. The legend for the stages of the river is located on the right of the map.

Any of the gages can be clicked on to view information about that specific point. The bottom of the map has different boxes to check on or off different features of the map, for example, topography, major rivers, and the names of the major rivers, etc.

Below this map is a list of each river with separate drop down menus. Any rivers that are in flood will be highlighted in its flood stage as symbolized in the legend. This feature allows for a creation of the desired features for the desired points along a particular river or lake on a separate page.

When an individual gage point is clicked, a hydrograph similar to below will appear:

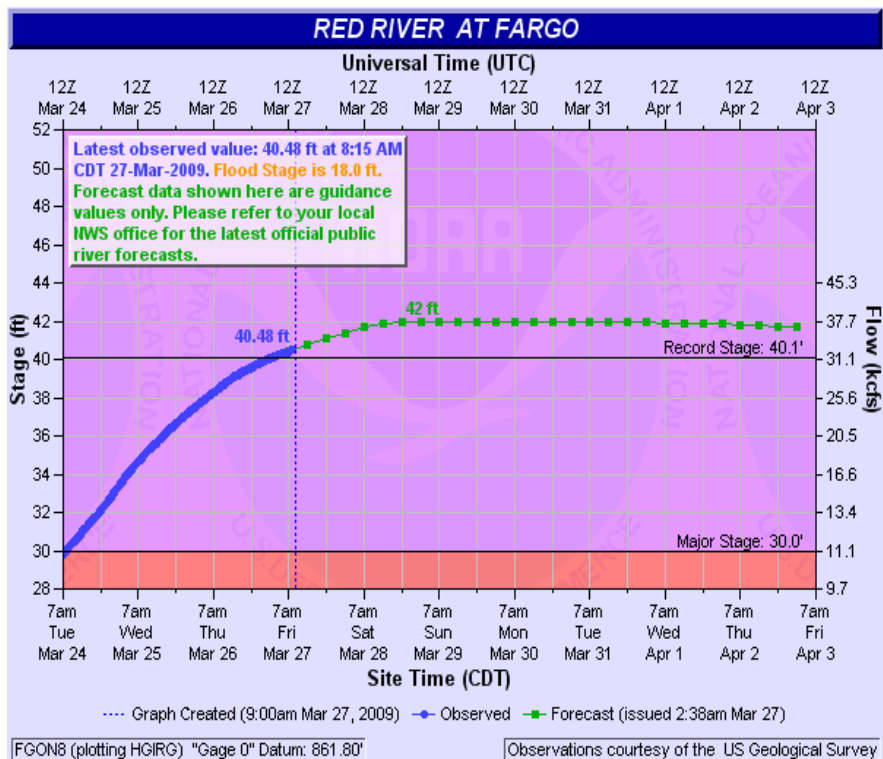
The graphic shows the gage readings for the Red River at Fargo for a 7 day time frame with the **blue line** and the **blue number** showing the latest observation.

Left side of the graph: Scale for the stage or height of the river in feet
Below the graph: Timeline of the observations for a ten day time frame in Central Standard Time.

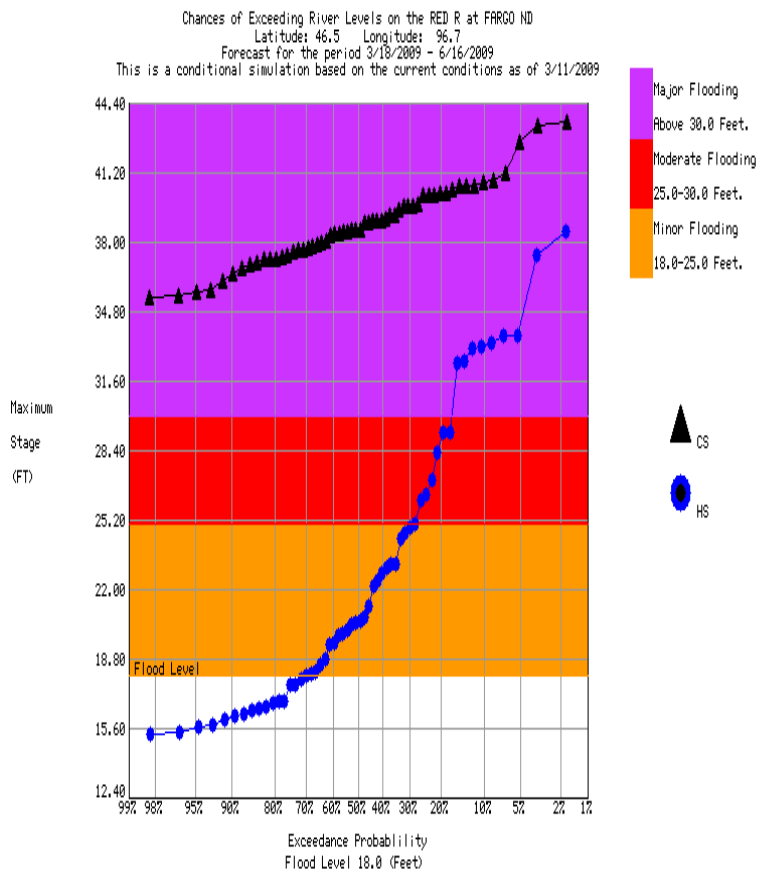
Right hand side of the graph: Flow of the river

The colored background to the graph corresponds to the flood stage; a **black line** separates the stages and labels the stage as well as its respective height.

This page will only show a **green forecast line** if the point is in or approaching flood stage.



If the Chance of Exceeding Levels During Entire Period tab is clicked, an outlook graphic will appear like below :



This graph shows the probabilistic outlook for a 3 month time period with a historical and conditional outlook. The stage of the river is indicated by the background color on the graphic and corresponds to the legend on the right side of the graphic.

Left hand side of the graph: maximum height of the river in feet
Bottom of the graph: probability that the height of the river will exceed flood stage for that location within the time frame

Blue circles: model simulations of historical and represent the chance the river will raise to the specified height from average snow cover, soil conditions, and spring river levels

Black triangles: model simulations of current conditions including the height of the river and the soil conditions as well as temperature and precipitation values for the time frame which includes anticipated conditions from the Climate Outlook

When the two lines are spread far apart as shown in the above graphic, this implies that the conditions are not typical.